

• • •

**MORSE
IN
7
DAYS
WITHOUT AN
INSTRUCTOR**

By H·O·LEWIS

1'3
NET

MORSE IN SEVEN DAYS WITHOUT AN INSTRUCTOR

Easy Stages to Speed
with Graded Exercises

by
H. O. LEWIS



PUBLISHED FOR
THE ENGLISH UNIVERSITIES PRESS LTD.
BY HODDER AND STOUGHTON LTD.

*First printed, September, 1942
Reprinted .. September, 1942
Reprinted .. September, 1942
Reprinted .. October, 1942
Reprinted .. November, 1943*

*Made and printed in Great Britain for The English Universities
Press Ltd., by Edinburgh Press Ltd., Warwick Sq., E.C.4*

MORSE IN SEVEN DAYS WITHOUT AN INSTRUCTOR

I HAVE often been struck by the lack of text-books on the subject of the study of morse. There are many books and manuals which, among other things, contain the morse alphabet, but as to teaching the best way to acquire a knowledge of this interesting and nowadays important subject, they are just silent, and keen minds are left to seek and struggle along as best they may in an "uphill manner" with no guide to make the travelling smoother or to indicate the short cuts.

This book will, it is hoped, fill a long felt want and provide just that measure of assistance to the beginner in the initial stages, that he or she, may pass by easy and rapid strides to a really useful turn of speed.

At the outset I will endeavour to answer those questions so many of you have uppermost in your minds. They are the questions I am so often asked.

- (1) Is it difficult to learn morse ?
- (2) What is the best method of learning ?
- (3) How long does it take to learn ?

(1) To the first I would say, that everything that is worth learning presents its own special difficulties, morse being no exception to this, although it is definitely not a hard subject to master, unaccompanied as it is by any complicated rules or formulas. Morse is essentially a matter of sound, and the rhythm of sound, and anyone with hearing should have little difficulty in intelligently imitating morse sounds as they do in imitating musical airs and popular songs.

(2) As to the best method of learning I say, and say it with emphasis, that the correct way, and the only way is, to

MORSE IN SEVEN DAYS

proceed on a "sound" basis, systematically and methodically, and the sole purpose of this book is to guide the reader along the straight and not so difficult way to achieve that goal—the mastery of morse reception and transmission.

But, and I will anticipate your question, morse surely is not all a matter of sound, what about visual signalling, by lamp, heliograph, etc.? Quite right, yet I maintain that to learn morse thoroughly and speedily, it must be done via the ears, and not the eyes. To learn in any other way than by the audible method seems to me like putting the cart before the horse.

Know your morse by sound and you will come to associate letters, numerals, etc., with their sound equivalents, even when using visual means of signalling.

Whenever I press a key, no matter whether it is to actuate a buzzer or a lamp, I think of what I am sending as dahs and dits in rough imitation of the buzzer sound. Even when reading some distant winking lamp, I recognise the flashes not as longs and shorts, but as dahs and dits and automatically translate them into the letters they are intended to represent. *This is what I want you to do.*

To those of you who will be entering the Forces, to be trained beforehand, even if in only one subject, is to save training time later on, and time is precious these days.

To be prepared ahead of schedule will give you a distinct advantage over an untrained person.

(3) To learn the morse alphabet seven days have been allotted in this book. If you follow the exercises as laid down herein, you will learn it in just that number of days. To acquire a turn of speed, say, 15 words per minute, it is not possible to give a definite period, as so much depends upon the individual and the amount of practice put in, but with ordinary intelligence and studious application, say a half or one hour's practice daily, it should not be long before six words per minute can be sent and read. In approximately one month the keen morse student will be going on to higher speeds, but to attain this desirable end, *the daily practice MUST be rigidly continued.*

Morse is like learning to ride a bicycle, a little wobbling at first, then that careful ca-canny stage, until finally the

MORSE IN SEVEN DAYS

complete confidence—sailing along in pleasurable manner. It is a subject that once learnt, I can assure you, will never be forgotten.

You who have decided to learn morse, have done so for many reasons, but having decided—stick to it—do not give it up, because the going may not be exactly down hill all the way.

You who are entering the Forces, owe it to your Country to be efficient, keep that ever fresh in your minds; let nothing deter or daunt you from the course you have set yourself. The consciousness of your ability to keep plodding along will be its own reward.

In order that the student may become accustomed to the sound of morse from the commencement, the purchasing of a simple outfit is recommended. It consists of the buzzer itself, a tapping or morse key, and a dry battery to supply the motive power.

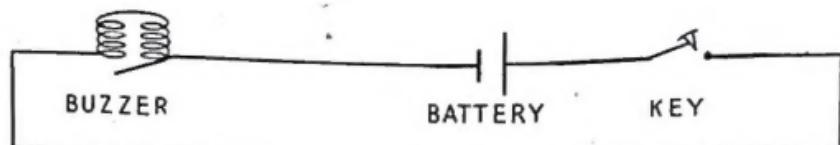
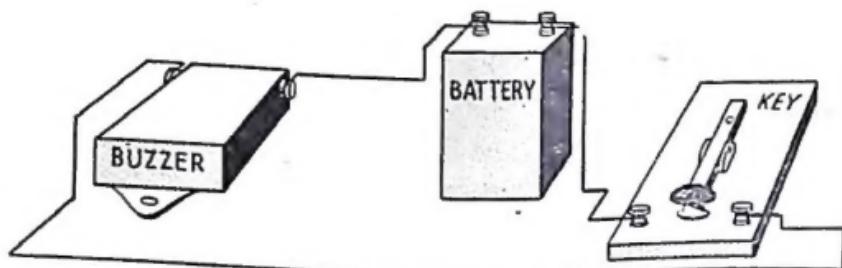
A good buzzer can be bought for approximately 4s., the key for say 9s. (or even less). An ordinary flash lamp dry battery costing between 6d. and 1s. and two feet of insulated bell wire, or twin flex will complete the outfit, the total cost of which should not be much more than 15s. If desired, the buzzer and the battery can be neatly housed in a small box with the key clamped to the outside.

A saving of cost will be effected by purchasing a cheap electric bell, removing the gong, and shortening the striking rod, this will make a reasonably good buzzer although the note will be rather raucous.

Anyone with initiative, a mechanical turn of mind and a few scraps of metal, wood and screws could also manufacture a primitive key; this should suffice, at least for the time being, and would do quite well. After all a key is only a means of making and breaking a circuit. Connect up the parts as shown in the diagram, making sure that the ends of the wire are bared of insulation and cleaned off in order that the metal of the wire makes direct contact with the metal terminals of the buzzer, and key, etc., which should firmly secure the wire in position.

See that there is not too much play between the "make and break" of the key, i.e. the distance through which the

MORSE IN SEVEN DAYS



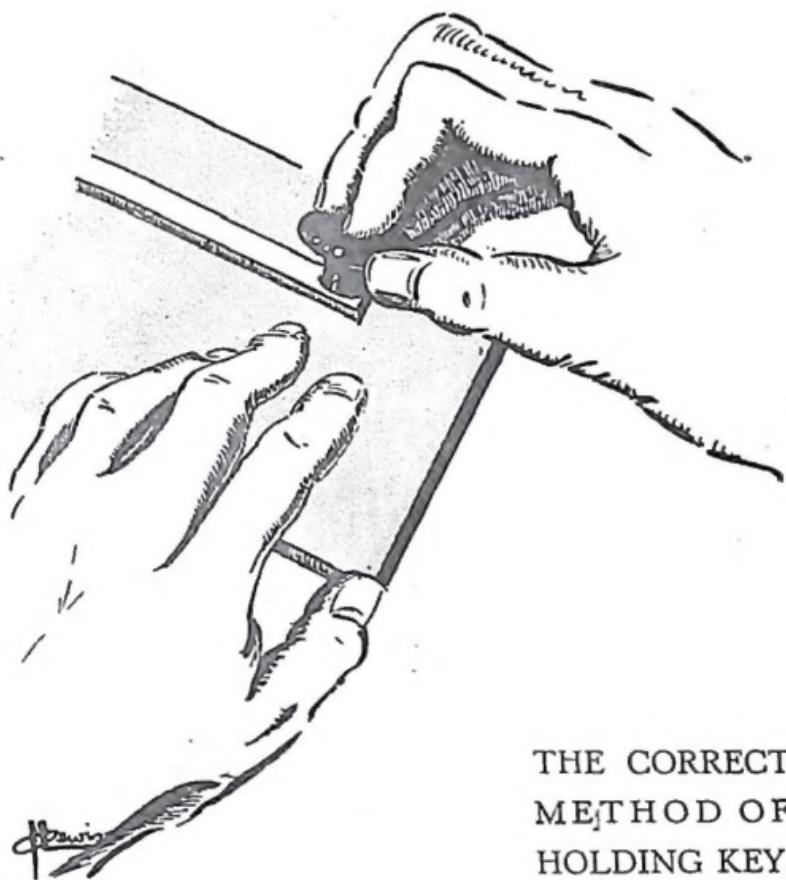
DIAGRAMMATIC SKETCH OF WIRING CONNECTIONS

key moves when being depressed and released. If the distance is too great, you will be prevented from making morse correctly, your wrist will ache, and to attain any speed will be practically impossible. Besides the noise of the metal parts striking will tend to swamp the buzzing of the vibrator and you will become greatly confused by the various sounds.

Adjust the vibrator (buzzer) by the means provided, to as high a pitch as possible ; a good buzzer will give quite a musical note.

You are now ready to commence your first lesson in morse.

If you have a friend who is also keen to learn, so much the better as you can help each other. One can send whilst the other writes down that which is being sent. At the end of the exercise you can change over, and whichever one of you was previously sending will now be writing down and *vice versa*, going through the exercise again from beginning to end. In this way every exercise in this book can be covered, (1) as a receiving exercise and (2) as an exercise in transmission, and each practised many times, in order to obtain the maximum benefit.



THE CORRECT
METHOD OF
HOLDING KEY.

MORSE IN SEVEN DAYS

LESSON 1.

Before actually proceeding with the morse, it will be as well to explain briefly the handling of the key.

I have seen operators holding or gripping their keys in various ways, and providing always, that accuracy and speed do not suffer, I cannot see that much harm is done. There is, however, like everything else, a correct way of handling a morse-key; and there is no reason why we should not cultivate a correct habit from the commencement, rather than drift into some unorthodox style.

The way I want you to hold the key allows for its most comfortable manipulation and permits both accurate and speedy transmission.

The tips of the first two fingers of the right hand should rest on the knob of the key with the thumb to the side just underneath the rim of the knob. The key should be held firmly.

The right arm should not be resting anywhere. The hand should be lightly poised as it were, and manipulation of the key is by easy movements dependent upon the flexibility of the wrist.

The base of the key should be held firmly by the left hand.

IMPORTANT. Remember that **YOU** are **MASTER** of the key and not the key master of you.

Morse is shown in print as · · · · · (shorts) and — — — — — (longs). I want you to think of these signs from now onwards, and always, in sound, as "dits" and "dahs," just as you would pronounce these two words and with the same time value, with just a slight pause on the dah.

The dah dit "sound" system of training, I specially advocate for beginners, and is the system on which my teaching is based. · must be dit, likewise — must be thought of and sounded as dah.

For example, the first letter of the alphabet, A, represented in morse sign · —, you will call dit dah.

Now let us run through the alphabet saying after each sign, the sound it represents in "dits" and "dahs."

MORSE IN SEVEN DAYS

<i>Letter.</i>	<i>Sign.</i>	<i>Sound.</i>
Ⓐ A	— —	dit dah
Ⓑ B	— — —	dah dit dit dit
Ⓒ C	— — — —	dah dit dah dit
Ⓓ D	— — — —	dah dit dit
Ⓔ E	—	dit
Ⓕ F	— — — —	dit dit dah dit
Ⓖ G	— — — —	dah dah dit
Ⓗ H	— — — —	dit dit dit dit
Ⓘ I	— —	dit dit
Ⓛ J	— — — — —	dit dah dah dah
Ⓜ K	— — — —	dah dit dah
Ⓛ L	— — — —	dit dah dit dit
Ⓜ M	— — —	dah dah
Ⓝ N	— —	dah dit
Ⓞ O	— — —	dah dah dah
Ⓟ P	— — — —	dit dah dah
ଓ Q	— — — — —	dah dah dit dah
Ⓛ R	— — —	dit dah dit
Ⓢ S	— —	dit dit dit
Ⓣ T	—	dah
Ⓣ U	— — —	dit dit dah
Ⓣ V	— — — —	dit dit dit dah
Ⓣ W	— — — —	dit dah dah
Ⓣ X	— — — — —	dah dit dit dah
Ⓨ Y	— — — — —	dah dit dah dah
Ⓣ Z	— — — — —	dah dah dit dit

As you say or think of the sound, visualize at the same time the letter it represents, in other words associate the sound with the letter not the sign.

Study the alphabet well, note any peculiarities and similarities, remembering all the time to represent the sound of each character by dits and dahs, or to think of them such.

You will observe that A (— —) dit **dah** is opposite to N (— — —) **dah** dit. Some letters are without dits and you will note that a few are without dahs ; these are the letters which most frequently occur in the English language.

Now before putting away your first lesson, take the A (dit **dah**) and Z (dah **dah** dit dit)—the first and last letters of our alphabet and learn them between now and to-morrow.,

MORSE IN SEVEN DAYS

repeating them over and over again to yourself at convenient times wherever you are during the day, so that when you return to your second lesson you will have only 24 letters to learn. Just concentrate on these two letters to the exclusion of all others, don't worry about any letters excepting A and Z.

LESSON 2.

The letters A and Z have now been thoroughly learnt and we have disposed of the head and tail of the alphabet as it were. To make doubly certain of them they should now be tapped out on your morse outfit which you will have handy with the battery and everything connected up. Remember how I told you to handle your key—first two fingers on the knob with thumb underneath the left hand gripping the base. Now press and immediately release the key as if you were stamping a pencil dot on a piece of paper, and bringing the pencil up sharply again. Keep on doing this in rapid succession and your buzzer will be sounding a series of "dits." Now similarly make several "dahs" by keeping the key pressed just a wee fraction longer. Actually the length of a "dah" is equivalent to three "dits" and the space between two letters is also equal to three "dits."

Now let us go through those two letters A and Z (dit dah and dah dah dit dit) with a slight pause between the two letters equivalent, as I have just told you, to the time it would take to send three "dits."

Tap them out on your key at the same time closing your eyes, for by so doing you will be better able to concentrate on the sound rhythm of these two letters.

Having devoted a few minutes to this we can now venture a step further.

When looking over the alphabet, as I instructed, you noticed amongst other letters—some, which are composed entirely of one or more "dahs."

They are T M O

T (—) dah

M (— —) dah dah

O (— — —) dah dah dah.

Look at them and study them well, at the same time repeating them on your morse buzzer in the foregoing order.

MORSE IN SEVEN DAYS

Having gone over them many times, mix the order, just as it occurs to you, over and over again. That completed you should now repeat them in the following sequence:—

(Note:—Letters, should be written down in capitals, or "block letters" as they are otherwise known).

T O M O T	T M M O T	T O O M O
T M M M O	T O O O T	M T T M T
O O M M T	T T M O T	M O O T M
O M T M T	O T O M T	O M M O T

(Repeat several times.)

Before concluding the lesson, we must make quite sure of all the signs that we have learnt so far.

i.e., A Z T M O

So on your key send as follows:—

T M A O T	M M Z O M	T A A Z A
T M O M T	A T A Z A	M A Z O T
M A M M A	Z Z A M O	A T Z M A
T A O Z M	O T A T M	Z A O T Z

(Repeat several times.)

You have now learnt five letters of the alphabet—there are only 21 left. Before finally putting away the lesson, I want you to look up in the morse alphabet, given in Lesson 1, the signs for letters E I S and H, and between this and the next lesson, to concentrate solely on these four new letters E I S and H until you are thoroughly familiar with them.

LESSON 3.

The letters T M O we found we made up entirely of "dahs," and the letters E I S and H which we have been endeavouring to memorise, for this lesson, are composed entirely of "dits."

E (-) dit	I (- -) dit dit
S (- - -) dit dit dit	H (- - - -) dit dit dit dit

We will now practice mixing the order so that they will be firmly fixed in our minds.

Get ready with the key then and tap out,

I S E H E	E S S I I	I H H S E
E H I S E	I I S S H	H S S H I
E I H E S	H I E I I	S E S E H
I H S E H	S H E I S	E E I S H

(Repeat several times).

MORSE IN SEVEN DAYS

Having gone over these letters several times we must not lose touch with the others that have been learnt. A Z T M O so let us mix them with E I S H as follows:—

I S E H E	S S A I I	I H Z E S
H S I E E	A I S S H	A A H S Z
I E Z H Z	A E Z A H	A S H E M
I H A H S	E T H I E	A S S Z O
M A S E O	I A E I O	T S H E I
I M A S E	Z T M E I	S H H S A
E Z O A T	E I S H Z	M E S T H

(Repeat several times).

It may prove interesting if we know that from the few characters we have learnt so far, it is already possible to tap out an intelligible simple sentence or two.

Here then are a few such sentences.

Remember the space between two letters is equivalent to three dits but the space between two words is slightly longer, the pause being equal to the time it would take to send five dits.

TOMS HOME IS A HOME
IS TOM AT HIS HOME
IT IS TOMS HOME
THE HOME IS TOMS
TOMS HOME IS A HOME TO TOM
HAS TOM A HOME
TOMS HOME TO ME IS A HOME
HAS TOM A TOMATO
HE HAS TOMATOES AT HIS HOME
THESE TOMATOES SEEM TO ME TOOTHSOME
THAT IS A HAZE
HIS HASTE TO MEET ME.

Nine letters have now been mastered, leaving only 17 more to be tackled and disposed of in similar manner, just like the little nigger boys in fact.

Some more letters have to be selected for us to think over between lessons.

All the vowels have been learnt with the exception of U (- - -) dit dit dah. This then will be one of our letters and for another we will take the letter immediately following it in the alphabet V (- - - -) dit dit dit dah. Note that

MORSE IN SEVEN DAYS

U has two dits preceding (- - -) and V being one place further on in the alphabet has an extra dit (- - - -); they will be easy to remember that way—anyhow we all know the Victory V (- - - -).

As we proceed to become better acquainted with morse we feel better able to manage to digest so to speak, more letters at a time, so in order to complete our selection of letters for preparation, we will also take the opposites of U and V which are D and B like this:—

U (- - -) dit dit dah V (- - - -) dit dit dit **dah**
D (- - -) dah dit dit B (- - - -) dah dit dit dit

These then are the letters to be learnt and to have ready for next time.

LESSON 4.

Those last four letters U D V B have not proved so very difficult to memorize, but we have yet to try them on the buzzer. Let us then repeat them in the order given below—from beginning to end, and again this time in the reverse direction, i.e., from end to beginning, then from right to left, and finally from left to right until there is no possible doubt as to their being perfectly understood.

U V U V V U V V V U V V U U V
D B B D D D B D B B B D B D B
U V D U B V D B V D U U B U D
V U D B U V U B U D B B V V U

(Repeat several times).

Let us now mix them with all the other letters learnt and continue our practice as follows:—

U B V A H	I Z A E I	O U S H E
A I H E D	U S E D U	E S H E B
E A I V Z	T H D V A	B T S M E
V A U V A	U V Z V A	U D B B I
S H O D E	M T V H U	B E D S Z

(Repeat several times).

It is surprising the number of words that can be made out of these letters. You will find much interest by adding to the list given here which should be practiced in similar manner by repeating over and over again.

MORSE IN SEVEN DAYS

HUES	DUES	MOOS	SHOES
MUSES	BOOS	HISSES	MISSES
VISAS	DOVES	DOES	MASSES
DAVIES	DAMES	BOOMS	VIDE
HAZE	MAST	AMAZES	DIVIDES
SIEVES	AMAZED	BEAST	TEASE

(Repeat several times.)

Now close your eyes as I told you in Lesson 2, and tap out all the letters you have learnt to date, just as they occur to you, keep it up as long as you are able, stop only when your wrist begins to ache, 13 letters (i.e. half the alphabet) have now been learnt, the remainder will be just as easy to grasp providing you continue to practice the exercises conscientiously.

For our next lesson we are going to take four letters
opposites { F (- - - -) dit dit dah dit
opposites { L (- - - -) dit dah dit dit
opposites { K (- - - -) dah dit dah
opposites { R (- - - -) dit dah dit

These then are your chosen letters, have them ready for Lesson 5.

Whenever you see these letters in print, on the hoardings, trains, buses, etc. Think of them only in terms of dits and dahs.

LESSON 5.

For this lesson we will commence by sending those four opposites we have been learning F L and R K.

F L R K	L F R K	F L K R	L F K R
K R F L	F L K R	L F R K	F L R K
K F L R	F K L R	L R F K	L R F K
K L F R	K F R L	R L K F	R L K F
F F K K	R K R K	R R F F	L L F R

(Repeat several times).

We are now familiar with 17 letters.
i.e. A Z T M O E I S H U V D B F L K R
Continue:—

A T M Z O	E U V S H	D B L F Z
R K F L K	R U V V U	A B D D B
Z O T T O	E I S H E	H E H S M
T Z A L F	R L K F E	Z A T M R

(Repeat several times).

MORSE IN SEVEN DAYS

In order to add some zest to the lesson let us see if we can make up sentences from these letters. Here are a few to go on with.

A FEZ IS SOMETIMES RED
ROSES ARE RED
MAKE HIM BAKE IT HARD
I LIKE THE SMELL OF ROSES
HE SAID TO TOM DO THAT
AS BEST SUITS HIM
DO GOOD FOR THAT BEATS EVIL
SUE LISTENS TO TOM
TAKE A MORSE MESSAGE THAT I
HAVE FOR SUE

Extra practice may be obtained by thinking out a few more sentences and adding to the foregoing.

The letters which we will prepare for our next practice are taken from four more "opposites," they are fairly simple and should not prove too difficult.

Here they are to be studied in odd moments just in the same kind of way as we have learnt the other letters.

G (--- -) dah dah dit P (- - - -) dit dah dah dit
W (- - -) dit dah dah X (- - - -) dah dit dit dah.

Ample opportunity will be provided for their practice in our next lesson, in the meantime, we must concentrate on learning them and them only; we need not bother our heads about any other letters until we return to the book again.

Review

LESSON 6.

We concluded our last lesson by selecting four opposites, the sound rhythm of which we are now fairly familiar with, but in order to imprint them indelibly on our minds we must have some key and buzzer practice with them as follows:—

P X	P X	X P	X P	X X	P P	X P
G W	G W	W G	W G	W W	G G	W G
W G	X P	P G	X W	W X	X X	P W
G P	P G	G P	W X	G P	W X	G W
P G	X W	P P	W W	G G	X X	P X
P X	G P	W G	G X	P W	X W	P G

Repeat several times; we cannot have too much

MORSE IN SEVEN DAYS

practice. Continue using all the letters we now know.

A B V V P	F F O U W	W G Z S P
F Z B D B	K G R A Z	V W X I O
F S E Z W	G P H F R	B V P U K
A Z T M O	I E I S H	U V D B P
W G Z A V	U X P G W	L F R T L
F W G O K	F R M T H	I E M S E
Z E S A V	U W G L F	B P K R O

(Repeat several times).

21 letters have now been introduced, leaving just five to complete the alphabet.

i.e. C J N Q Y

C (- - - -)	dah dit dah dit
J (- - - -)	dit dah dah dah
N (- - -)	dah dit (opposite to letter A)
Q (- - - -)	dah dah dit dah (Y reversed).
Y (- - - -)	dah dit dah dah (Q reversed).

Thoroughly familiarise yourself with them and have them ready for practising in our next lesson.

LESSON 7.

If all the lessons have been digested and practised strictly, in accordance with the instructions, we shall now be rounding off the alphabet within the time we allotted ourselves, i.e. seven days.

Before running through the complete alphabet let us confirm that we thoroughly know those last five letters C J N Q Y.

C J N Q Y	Q J Y N C
Y Q N J C	C N J Q Y
C N J Q Y	J Y Q C N
Q J Y N C	Y N Q C J
Y J N Q C	J N C Q Y

(Repeat several times).

Now tap out the whole alphabet.

A B C D E F G H I J K L M
N O P Q R S T U V W X Y Z.

Repeat in reverse direction.

Mixing can best be done, in what are known as groups. Such code groups are usually composed of five letters. In

MORSE IN SEVEN DAYS

this form code messages are transmitted by wireless. You will often have heard these messages being sent at varying pitches and varied speeds and wished so much that you were able to read them. Well now that you have equipped yourself with the knowledge of morse, you have also provided yourself with a key so to speak. A key that enables one to enter a world in which distance loses its meaning. A world where sound is whisked over great stretches via the *Æther* at the speed of light, i.e. 186,000 miles per second.

If any of my readers become wireless operators they will understand better what I mean.

Whenever I listen out during the long watches of the night, with headphones pressing tightly on my ears, my fancy carries me to a different world. A faint message comes through as some lone operator, many thousands of miles away perhaps, taps out morse signals, then suddenly interrupting, comes the crackle and jar of raucous atmospherics breaking in from some mysterious source beyond. I feel like an intruder into the unknown, an eavesdropper of space ; yet I am linked up with comrades, that small band of unseen guardians of the *Æther* dotted all over the globe, who, whilst in communication with each other, are keeping watch like sentinels—Earth Sentinels listening to those whisperings and splutterings, those mysterious eruptions of space, a space peopled by the stars and who knows some other inhabited world or worlds perhaps, whose sentinels also are watching and waiting.

Good opportunity for practice is provided by wireless messages picked up on your own radio set and a test of one's ability to read morse quickly, is made possible by those messages which are being sent at high speed. I strongly recommend such practice as being most useful.

Code Groups.

Repeat several times.

A B C N Z	F G W L P	J A H P X
A Z T F L	Q R K S L	P A G N R
C A U D B	U W G V A	A T S H M
B D U V A	Z A N D B	R K F L Y
P J G W F	B F Q Y W	X Y Z A B

MORSE IN SEVEN DAYS

The alphabet has been mastered, but we have yet to learn numerals and special signs. The figures are quite easy to pick up, the special signs, however, need slightly more attention.

LESSON 8. (Additional lesson on Numerals, Special Signs and Punctuation).

Numerals.

1	- - - -	Increasing dits denote figures one to five.
2	- - - -	
3	- - - -	
4	- - - -	
5	- - - -	
6	- - - -	Decreasing dits denote figures six to nought.
7	- - - -	
8	- - - -	
9	- - - -	
0	- - - -	

Observe that the figures up to figure 5 are composed of ONE dit, etc., for figure 1, TWO dits, for figure 2 and so on, until figure 5, which is made up of FIVE dits.

From figure 6 onwards to figure 0 it is all "down hill" as it were. The dahs now precede the dits. Remember then, when numerals are being sent, a dit coming first is a cue that the figure is any numeral up to five. And a dah first, means that the figure cannot possibly be either 1 2 3 4 or 5 (i.e. 5 or any figure before it).

Up to and including figure 5 then, count your dits and they will indicate the figure.

Figure 6 has the dah first and most dits after it and as the figures increase the dahs likewise increase and the dits correspondingly decrease, until finally figure 0 is represented entirely by dahs.

Numerals.

Exercise on Increasing Dits.

1	2	3	4	5	3	4	1	2	5
5	4	3	2	1	2	3	2	1	4
2	1	3	5	4	5	5	4	3	3
4	3	5	1	2	2	1	2	3	4
5	2	1	3	4	5	1	5	5	4
2	3	1	2	4	4	1	4	3	2

MORSE IN SEVEN DAYS

5 1 5 4 4
5 2 3 3 2

3 4 2 5 1
1 2 5 5 3

(Repeat several times).

Numerals.

Exercise on Decreasing Dits.

6 7 8 9 0
0 7 8 6 9
8 8 9 6 7
0 9 6 0 0
9 8 7 6 7
6 6 8 9 7
8 9 6 8 8
9 0 9 0 6

8 9 7 6 0
0 8 7 9 9
9 8 0 0 6
6 7 7 9 9
9 6 6 7 6
0 7 6 6 0
6 7 9 9 0
8 7 6 8 8

(Repeat several times).

All Numerals 1 to 0.

1 2 3 4 5
6 7 8 9 0
0 6 5 4 7
7 6 5 3 3
2 1 7 6 5
6 5 4 3 2
9 5 6 0 1
9 7 6 5 4

5 4 2 9 0
6 3 2 5 5
9 1 9 8 2
4 5 3 5 6
4 6 1 9 5
7 3 8 2 1
9 1 0 5 2
8 2 6 4 5

(Repeat several times).

Alphabet.

(Including Foreign Letters.)

A

N

ä

ü

B

O

C

ö

Ch

P

(used in Plain
language)

D

p

E

Q

é

R

F

S

G

T

MORSE IN SEVEN DAYS

H - - - -
I - - -
J - - - - -
K - - - -
L - - - - -
M - - - - -

U - - - - -
V - - - - -
W - - - - -
X - - - - -
Y - - - - -
Z - - - - -

Punctuation Signs.

Full stop	<u>AAA</u>	The bar above the letters denotes that they are made as one sign, e.g. (dit dah dit dah dit dah).
comma	<u>iii</u>	
? note of interrogation	<u>imi</u>	
" " inverted commas	<u>AF</u>	Before and after the words concerned.
() parenthesis	<u>KK</u>	
' apostrophe	<u>WG</u>	Note :—Letters reversed.
! exclamation	<u>GW</u>	
/ oblique stroke	<u>XE</u>	
— fraction	<u>EX</u>	
		separative sign
;	<u>CN</u>	
:	<u>OS</u>	
- hyphen	<u>DU</u>	
underline or block letters	<u>UK</u>	
Decimal Point	<u>FI</u>	

The foreign signs are of course met with, and to be a "fully fledged" wireless operator, it is necessary that they should be known. They can, however, be picked up in a more or less leisurely manner, say one or two per day.

It is necessary of course to get acquainted with the punctuation symbols as soon as possible.

In the graded exercises, provision is made for their ample practice.

It is recommended that the graded exercises be carried out in conjunction with a time-piece which has a second hand in order to ascertain and measure progress.

The purpose of this book being merely to teach morse, no reference has been made to W/T. (Wireless Telegraphy)

MORSE IN SEVEN DAYS

procedure, i.e., the method of handling, and the rules governing, the actual transmission of wireless messages in morse.

The Navy, Army and Air Force, each have their own special methods, although there are many points of similarity between them all.

The procedure used in the Merchant Service is known as "Commercial Procedure."

It is useless to attempt any procedure until some speed in morse reception and transmission is gained. The tuition given in these few pages will, it is hoped, be of such benefit to the diligent student, as to assist him or her to obtain the necessary turn of speed in the shortest possible time.

One final point. If at any time whilst reading morse you should be stuck over a letter, do not pause to ponder, but just carry on reading. *It is far better to miss a single letter here and there, than to miss a whole series.* One can easily imagine that to hesitate in a message being sent at high speed, is to court disaster.

In morse reception it can be truly said, "He who hesitates is lost."

Remember then not to bother over a missing letter, it may be possible to retrieve it later. This especially applies to P/L (plain language) where, when reading the passage through afterwards, the sense will most likely indicate how to fill in the blanks.

GRADED EXERCISES.

EXERCISE No. 1.

CODE.

A N U V A

A N B V U

E T T E A

O E T A N

V I S E S

B C A Z D

A M U I S

N A U V N

D U U V B

I S T T E

H O T E D

M A B V T

Z D U V B

V V A B D

B V U V A

U D V B A

S I S T E

M O B E D

T B C A N

D Z A T O

A U V B D

(Repeat several times).

MORSE IN SEVEN DAYS

1 2 3 4 5	5 4 3 2 1	4 5 3 1 2
3 2 1 5 4	5 5 1 1 3	3 2 1 1 4
3 2 2 1 4	5 5 3 3 2	1 1 2 2 4
5 4 3 2 1	1 3 5 6 1	1 5 4 5 7
1 8 2 3 4	1 9 2 4 5	0 1 2 5 9
1 5 6 0 7	8 9 1 5 6	9 0 1 2 3
5 6 5 4 8	6 9 1 2 0	2 9 3 4 6

(Repeat several times).

What is the sign for Full stop ?

" " " " " Comma ?

EXERCISE No. 2.

CODE.

A B F G O	A O A N K	B A T S B	A X K P Y
O J B J A	N U W V N	B O M E L	A T R G W
S Y T X N	Z Y K O L	T R H B E	O W L Q R

12 Groups.

Sent in 2 minutes = Rate of 6 W.P.M.

" " 4 " = " " 3 W.P.M.

Numerals.

1 5 8 9 6	2 0 9 8 7	3 6 4 2 1
9 0 6 0 4	2 1 8 7 6	4 5 6 5 3
4 6 4 8 6	9 8 1 2 0	3 4 6 5 7
1 8 0 6 0	3 9 7 6 1	2 4 6 4 4

Sent in 3 minutes = Rate of 6 W.P.M.

Plain Language or P/L.

THE TIME WILL COME WHEN EVERYBODY WILL HAVE SOME FORM OF RECEIVING INSTALLATION.

Sent in 2 minutes = Rate of 6 W.P.M.

Mixed Groups.

Mixed groups are generally sent in groups containing two letters and two figures.

Note that to distinguish the numeral 0 from the letter O, the figure symbol has a bar written through, thus, 0, and to distinguish the letter i from the numeral 1 the letter is dotted.

MORSE IN SEVEN DAYS

Example	Numeral			
A	S	0	Z	
3	Y	N	O	—(letter)
F	4	5	i	—(letter)
(numeral)—1	2	B	C	

EXERCISE No. 3.

CODE.

C A N O P	Q L W O T	T L O K R
Z V B Z S	N X A K V	V W U N O
S T B A Y	K N A O N	D J B X T
Y Q A Q P	Y Z L A L	E B H C N

Sent in 2 minutes = Rate of 6 W.P.M.

P/L.

We left Southampton docks in the afternoon, it was a ⁱⁱⁱ

miserable day with an overcast sky. A high wind was ^{AAA}
blowing accompanied by dismal rain. ^(AAA)

Sent in 4 minutes = Rate 6 W.P.M.

Note that the comma and full stop each count as a separate word.

Numerals.

2 0 0 1 4	6 5 6 3 2
7 8 9 2 1	5 4 5 5 6
2 1 8 9 7	3 6 4 2 1
7 8 7 7 9	0 2 1 8 6

Sent in 2 minutes = Rate
6 W.P.M.

Mixed Groups.

Q X 8 1	i U V 4
8 9 B O	5 H M 6
0 S 2 F	0 7 9 G
A 3 Z 5	6 0 1 C
C Y 2 3	M 7 4 6

Sent in 2 minutes = Rate
6 W.P.M.

EXERCISE No. 4.

CODE.

Y M O H A	A G N R N	A X B Q B
F O U L C	P X R Z P	A E S K R
R O I X K	L A M E Z	T R F J X
A B J U X	O V A W O	O L G N S

Sent in 2 minutes = Rate 6 W.P.M.

MORSE IN SEVEN DAYS

P/L.

Only a few relatives and friends lined the quay-side to
wave farewell.

AAA

The great ocean liner gradually glided from her berth
out into the murkiness.

AAA

Sent in 4 minutes = Rate 6 W.P.M.

Numerals.

1 6 5 4 2 5 9 7 6 1
9 8 7 1 6 2 0 9 8 3
4 8 5 3 2 4 6 5 3 7
2 9 0 1 2 7 5 4 6 3

Mixed Groups.

9 5 B C 7 Z 6 2
A 6 Z 4 5 P L 7
4 V 3 U A X 9 8
A 0 O 9 Y Z 2 1
1 i O 0 G 8 7 W

Sent in 2 minutes =

Sent in 2 minutes =

Rate 6 W.P.M.

Rate 6 W.P.M.

What is the sign for Inverted Comma ?

" " " " " Parenthesis ?

EXERCISE No. 5.

CODE.

R L A N E	X I N E Y	W A W V B
A G N P C	R O Y A F	N A G Y R
L A C B L	C F B U Q	F O Q Y S
B U A J T	A P O J U	P E H J W
S I N E V	R G W Y Y	

Sent in 2 minutes = Rate 7 W.P.M.

P/L.

Many smiling faces peeped over the sides from high
above.

AAA

The small group of people left behind looked so forlorn
as they held aloft their fluttering handkerchiefs whilst the
"Melita" receded from view.

(AF) (AF)

AAA

(Sent in 5 minutes = Rate 7 W.P.M.)

MORSE IN SEVEN DAYS

1 Pair

Note that one pair of inverted commas " " count as one word.

Numerals.

Mixed Groups.

1 5 6 4 7	3 6 4 2 1	9 8 1 2 0	A 2 9 0	B 7 5 i	5 1 k 4
1 8 5 9 6	9 0 6 0 4	4 6 4 8 6	Z 1 2 Y	N W 2 4	0 6 P O
2 0 9 8 7	2 1 8 7 6	4 5 6 5 3	N 8 5 A	1 2 W G	L F S S
3 4 6 5 7	1 8 0 6 0	3 9 7 6 1	Y Q 2 3	Q F 0 9	B 4 C 7
2 4 6 4 4	3 9 7 5 5	3 2 1 9 8			

Sent in 3 minutes = Rate
7 W.P.M.

Sent in 2 minutes = Rate
7 W.P.M.

EXERCISE No. 6.

CODE.

G N F X G	A G Q R R	S A F K X	L P A V P
G U A Z A	R A B O E	L Y Q N Z	A S T R O
H O S E X	M O O R A	T R F W Z	G N A L U
P J A O W	N A J P Q	R H S E A	N G A B C

Sent in 2 minutes = Rate 8 W.P.M.

P/L.

We were sailing to the "Golden West," the land of
opportunities, the land of our dreams. Our hopes were high
the eagerly awaited day had arrived.

What had the future in store for us.

Sent in 4 minutes = Rate 8 W.P.M.

MORSE IN SEVEN DAYS

Numerals.			Mixed Groups.	
2 0 9 8 7	1 5 8 9 6	3 6 4 2 1	A S 2 Z	B R 9 8
9 0 6 0 4	2 1 8 7 6	4 5 6 5 3	0 9 L K	P 8 P 1
4 6 4 8 6	9 8 1 2 0	3 4 6 5 7	2 2 2 i	K K S S
1 8 0 6 0	3 9 7 6 1	2 4 6 4 4	P X 1 4	O 0 5 G
Sent in 2 minutes = 8 W.P.M.			6 3 A V	V A 3 6
			N 5 5 0	1 i 2 S
			G 8 9 Y	5 6 A C
Sent in 2 minutes = Rate 8 W.P.M.				

EXERCISE No. 7.

CODE.

A L N X P	B Y C A O	F J P Y R
A W V Q S	G N A F N	B R O L A
R S A E X	A K R J F	T R E S H
H A F G O	W V A G I	Y Q U N E
B C G I S	A R L Z A	T Z X W N
H L K A P	A N J L Y	Q W Y X Z

Sent in 2 minutes = Rate 9 W.P.M.

P.L.

The voyage turned out to be for the most part uneventful.

AAA

It is true there were deck games and other amusements and as a special diversion a ships concert, but one soon wearied

iii

of these, other things occupied our thoughts.

iii

AAA

Sent in 4 minutes = Rate 9 W.P.M.

Numerals.

Mixed Groups.

0 6 0 3 1	2 9 8 7 5	A Z 5 6	B Z 9 7	6 8 D J	5 H 9 K
2 9 8 7 5	4 3 5 6 5	Z 6 0 Y	F 8 Q 5	8 D 8 D	N 5 6 0
8 0 9 0 1	2 3 5 6 3	P A 6 8	i 1 0 V	N 6 L 5	X Q 7 3
4 6 4 7 9	0 8 6 5 3	8 7 Q Q	Y L 6 6	F 7 L 6	9 O 0 4
1 8 6 9 3	2 7 3 7 2	Sent in 2 minutes = Rate 9 W.P.M.			
1 8 0 9 6	1 2 5 3 5				
4 9 6 7 1	8 2 5 3 2				

Sent in 2 minutes = Rate 9 W.P.M.

MORSE IN SEVEN DAYS

EXERCISE No. 8.

CODE.

C E N T R	S O I R D	W R S E A	L L I H P
F Q A F Q	A I J P L	NAKRF	GWAXF
Y V A Z A	L A L W F	ONUKO	B Z J P N
R N O T T	B A L M M	T R A E I	M X Y S H
A - Y D L G	O Q M W	L B F C N	A D G J K

Sent in 2 minutes = Rate 10 W.P.M.

P/L.

Not until the voyage was nearing its end did we get our first sight of icebergs.

AAA

A number of particularly fine specimens, huge, magnificent, floated by.

(iii) AAA

There was a sudden drop in temperature just like passing the open door of a refrigerator.

AAA

Sent in 4 minutes = Rate 10 W.P.M.

Numerals.

9 6 1 4 3	7 6 5 8 9	2 8 2 Y	0 7 A B	6 P L S
1 9 8 6 5	4 8 9 0 2	Q G 4 4	M i 2 5	H C 8 4
3 5 7 6 5	2 1 0 0 5	2 A P 6	L A 6 3	3 Q C 5
4 3 6 7 3	5 4 5 5 6	8 9 i B	6 Y A 2	6 U 1 B
9 0 2 1 5	3 9 6 7 8	F 9 Y 2	L A 2 4	3 7 X N
2 8 9 0 1	5 7 6 6 6	A 7 5 D	Y Q 2 7	6 9 Y W
2 1 9 8 3	4 5 6 8 9	Sent in 2 minutes = Rate 10 W.P.M.		

Sent in 2 minutes = Rate
10 W.P.M.

Mixed Groups.

EXERCISE No. 9. CODE.

X L Z Y X	W A V I P	N A B F A	C J H O Z
T W G W Y	L Y Q F H	A B R T N	G A P Y A
A J N P Q	B O O M L	H I E F F	T O E S A

MORSE IN SEVEN DAYS

N W J E N	Z A B R Z	T Q R K X	M L A P Q
M H A N C	L V K F R	U X B Y D	L K Q R C
O A Z T B	X A T M F		

Sent in 2 minutes = Rate 11 W.P.M.

(Punctuation symbols in this and future passages, although no longer indicated, are to be sent.)

P/L.

On our arrival at Quebec, we were herded into large structures resembling outsized cages.

These were the Customs sheds and two long weary hours passed before we finally cleared, eager to commence the next stage of our adventure.

Sent in 3½ minutes = Rate 11 W.P.M.

Numerals.		Mixed Groups.	
2 0 0 1 4	6 5 6 3 2	Q X 8 5	8 9 A C
7 8 9 2 1	5 4 5 5 6	X U 2 7	A 2 T 5
2 1 8 9 7	3 6 4 2 1	P 5 P 6	0 4 A C
7 8 7 7 9	0 2 1 8 6	V G 5 3	i D L 6
5 0 0 2 8	6 7 6 4 4	0 i 5 C	6 N P 2
3 9 8 7 5	2 1 4 3 1	5 O W 9	O V S 5
8 7 9 6 7	2 8 5 5 5	7 7 B B	U 9 0 V
3 9 8 7 5	4 8 6 7 3	Z S 2 5	H 4 D 4
Sent in 2 minutes		6 7 S i	O 0 1 i
= Rate 11 W.P.M.		L D 5 9	9 G K 8
		Sent in 2 minutes =	
		Rate 11 W.P.M.	

EXERCISE No. 10.

CODE.

F O Q R K	M L A G X	B E A T W	G R A Z P
W A F L L	B N C J A	I R L E J	K O N P O
T O E H J	B L H S I	J O N S E	P A F Q X
L Y X V F	A K U W F	G V W Q L	Z A C B D
E M T P Y	O S B R K	S R F K V	L P A N X
Z O E R N	B L A K E	N S S A L	N G W K F
L E W N P	T R K Y Q		

Sent in 2 minutes = 12 W.P.M.

MORSE IN SEVEN DAYS

P/L.

A three day railway journey lay ahead. It was necessary therefore to lay in a stock of "eats" to sustain and fortify.

With a loud clanging of a bell secured abaft its funnel, a massive engine snorted to a halt.

Sent in 3 minutes = Rate 12 W.P.M.

Numerals.

1 8 7 6 1 2 5 8 3 2 4 5 6 4 6 2 3 1 7 6 5 4 5 5 4 9 8 7 0 5 3 2 7 8 6 5 9 5 5 5 0 1 0 9 8 2 8 6 3 7 8 9 6 5 1 2 8 4 6 4 6 6 4 4 7 3 9 7 8 0 1 9 0 8 2 0 7 6 6 4

Mixed Groups.

6 8 A B 6 8 E J L 8 H 7 T 7 P 3 T M 7 3 i C 9 6 0 i Y 5 5 2 G P 4 V J 3 3 2 O P 9 J O 0 P T 1 9 8 V 4 U i 1 2 i H 5 S 3 N G 6 6 O 5 5 O B L 2 2 A F 1 2 2 1 N N Z 4 Z 4 F K 2 3

Sent in 2 minutes =
Rate 12 W.P.M.

Sent in 2 minutes =
Rate 12 W.P.M.

What is the sign for Fraction Separative?

" " " " " Decimal Point?

EXERCISE No. 11.

CODE.

A D O B C	L A Z R R	F K A X Y	T R A B O
L D C C E	X O T E F	A K R N C	L Y Y D U
D R K F F	E L M S C	T A H K L	B T A S J
J F P R I	O Y E X Z	D R O N E	C L V E I
N D U V W	O D D E C	N U Z L K	O F N F R
E N G I L	P R A V D	L O M O D	P U N A D
O G E E P	T R K M M	P L Y D F	R K B C K

Sent in 2 minutes = Rate 13 W.P.M.

P/L.

The journey was one of constant delight. Bowling along the borders of the Great Lakes, those inland seas upon whose waters plough ships as large as any ocean going liner, on

MORSE IN SEVEN DAYS

through the fertile lands of Ontario, past great orchards ablaze with colour.

Sent in 3½ minutes = Rate 13 W.P.M.

Numerals.

18761 23852 64654
67132 45870 50709
68231 28911 45466
32719 86054 39822
34764 38219 76763
82190 02055 32197
Sent in 2 minutes = Rate
13 W.P.M.

Mixed Groups.

PR44 12HH AP64
4HV4 95DC 63PA
ON0Q O0N5 PR54
DP06 AZ21 3FFF2
LK15 K56X Y2Y3
L24L PF22 G43G
AC5A ZY13 QU29
BL29 A7A6 92UV

Sent in 2 minutes = Rate
13 W.P.M.

What is the sign for Oblique Stroke ?
What is the sign for Hyphen ?

EXERCISE No. 12.

CODE.

HFQLY	QPALM	XKRQT	ZOHNA	GWGWT
TXZAX	BOMOL	AIPJL	SOSES	YVAUW
BZJPN	MBBLA	TAREE	SFQDB	ANKXF
AWXLD	OSTAK	NARKA	FOHPN	RNOTA
ARPKC	XFALT	PLJIA	PHILL	TRCKB
LPYYK	OXAFW	UTMVB	AZZAM	OPLGW

Sent in 2 minutes = Rate 14 W.P.M.

P/L.

Green fields gave way to huge forests which in turn thinned to scrub rocks boulders and mountains.

As we sped onwards ever faster the thunder of our approach and the screech of the whistle stirred the stillness into which we had intruded. Wailing echos were flung from mountain top to mountain top and hurled back at us like broadsides as if to demonstrate the resentment our intrusion had aroused.

Sent in 5 minutes = Rate 14 W.P.M.

MORSE IN SEVEN DAYS

Numerals.

1 2 3 5 5	4 9 8 7 6	8 5 3 2 1	9 2 0 1 5
2 2 4 7 6	8 9 2 1 0	0 2 2 5 6	3 7 9 8 2
4 3 6 6 1	2 0 0 1 5	6 3 9 2 1	8 7 9 8 7
6 4 3 5 2	5 3 2 3 4	2 1 9 2 5	6 8 7 2 4
2 9 0 9 5	2 1 2 1 6	4 6 7 3 2	2 1 9 2 5

Sent in 2 minutes = Rate 14 W.P.M.

Mixed Groups.

T A S S	A 6 Z 9	5 8 \bar{P} L	Q 1 0 Y
Z 6 3 Y	i S 9 1	H M 6 8	D O 5 6
\bar{P} L 6 6	P A 5 9	A 9 8 2	Q 6 Y 5
F 4 7 T	E L 9 0	G 7 8 G	E 5 S i
2 9 B L	3 B L 3	9 F 8 L	0 6 Y F
Z Z 2 2	E S 8 8	0 O E 1	G F 2 3
L K 9 7	9 6 K F		

Sent in 2 minutes = Rate 14 W.P.M.

What is the sign for Note of Interrogation?

" " " " " Apostrophe?

" " " " " Exclamation?

EXERCISE No. 13.

CODE.

P J O K F	D A S L E	N A B B C	O D O L R
D N A U W	L E S D X	V O L O D	L R D Z Y
V W G B C	V A G A B	C I T Y E	P R E I N
N A Z Y T	M O Y T K	N E E P J	V I V L K
E L M H R	M L M M J	T K F L R	U T Z A B
D Z X E K	E I I T H	Z O Z B B	C O X A B
N A D E N	N E D F F	L E D T H	L O Y A L
P L E H T	G X R W K	E E K O N	B A C T H

Sent in 2 minutes = Rate 15 W.P.M.

P/L.

Winnipeg was reached in the early hours of a Sunday morning. We were greeted by a majestic salute, the booming

MORSE IN SEVEN DAYS

of thunder, as a terrific storm let loose its violence over the town.

(The heat had been oppressive for a long time)

Outlines of tall buildings were illuminated by vivid flashes.

Sent in $3\frac{1}{2}$ minutes = Rate 15 W.P.M.

Numerals.

1 5 9 8 7	2 8 8 5 3	4 2 1 9 6	6 5 6 6 7
2 8 9 6 4	4 3 2 1 0	0 1 3 2 3	4 9 0 5 8
8 7 6 5 3	2 1 4 3 3	8 6 5 5 9	0 9 1 2 3
5 8 0 9 6	2 9 7 6 1	4 5 3 2 8	9 4 8 2 0
2 9 5 4 3	3 3 2 3 6	5 4 9 6 8	2 0 9 7 6
3 5 6 4 1	4 4 8 2 7		

Sent in 2 minutes = Rate 15 W.P.M.

Mixed Groups.

A \overline{P} 1 9	9 0 B B	B 8 4 C	D 2 8 D
F 5 4 G	B S 5 9	N J 4 6	M T 8 9
H A 6 7	D 4 6 C	A Z 2 9	H O 0 1
6 A 7 H	4 L 5 J	9 F S R	i 9 8 S
O D 2 7	0 \overline{P} O F	V 9 U 6	E S 9 J
7 N G 8	1 2 J J	S E 7 5	O S 5 3
i 9 8 B	2 0 F Z		

Sent in 2 minutes = Rate 15 W.P.M.

What is the sign for Semi Colon ?

" " " " " Colon ?

" " " " " Underline or Block Letters ?



MORSE IN 7 DAYS WITHOUT AN INSTRUCTOR

By H·O·LEWIS

M. THAS, 558 GEORGE ST., SYDNEY